Di’ao Xinxuekang - the first authorisation of traditional herbal medicine from outside the European Union

- Marketed by SU BioMedicine and approved by Dutch Medicines Evaluation Board (MEB) on 14 March 2012
- The application was evaluated very carefully on the basis of:
  - pharmaceutical quality
  - safety and
  - the justification of traditional use, i.e. 30/15 year rule
  (Dioscorea nipponica rhizome 穿龙薯蓣)
- The marketing authorisation holder is obliged to implement a pharmacovigilance system
- The manufacturing site of Di’ao in Chengdu, China was inspected on GMP by the Dutch Pharmaceutical Inspection.
UK Health Secretary calls for Chinese medicine on the National Health Service
英国卫生大臣称若中药有效 可考虑纳入全民医保

- 3 April 2014, Health Secretary tells MPs there should be no limit on remedies even though benefits have not been proven
- 英国卫生大臣亨特表示，如果有足够的证据证明中医药对患者有益，则中医药有可能被纳入英国全民医疗保险 (NHS) 系统
- Tory MP said there should be no ideological bar to alternative treatments
- Critics have said it encourages poaching of animals including rhinos
- Mr Hunt, whose wife is Chinese, looked into how remedies could be integrated with Western medicine

Jeremy Hunt and wife Lucia

Members of UK-CGCM - 1

1) The Association of Traditional Chinese Medicines (ATCM-UK) Kaicun Zhao
2) Bradford University – Peter York & Qun Shao
3) Brunel University – Ian Sutherland & Svetlana Ignatova
4) Cambridge University – Tai-Ping Fan & Andreas Bender
   - Tai-Ping Fan – Panelist of Interregional Collaborations in Industry and Academia (27/8/14 – 14:00-16:00).
   - Poster 362 in Polychemical Activities & Mechanism II
5) Chinese Medical Institute and Register (CMIR) – Don Mei
6) GP-TCM Research Association – Qihe Xu, Peter Hylands & Tai-Ping Fan
Members of UK-CGCM - 2

- 7) King’s Centre for Integrative Chinese Medicine – Peter Hylands & Qihe Xu
- 8) Nottingham University – Terry Parker
- 9) Oxford University – Gerry Bodeker
- 10) Royal Botanic Gardens, Kew – Monique Simmonds
  - Johanna Michl et al. Poster 215
- 11) UCL - School of Pharmacy – Michael Heinrich
  - Vafa Amirkia and Michael Heinrich – Poster 037
  - Johanna Michl et al. Poster 215
- 12) Wolverhampton University - Mike Fullen/Kelvin Chan

Current International Collaborations at Brunel University

- Collaboration with Sichuan University – West China Hospital – State Key Laboratory of Biotherapy – Production of Honokiol, anti-cancer agent, for first stage clinical trials in China
- Member of GP-TCM Research Association – Ian Sutherland Chairing 2014 Election of President and Board Members
- 8th International Conference on Counter-current Chromatography (CCC2014) held at Brunel – July 23-25, 2014 – more than 20% of the delegates were from China
- Visiting Postdoc, Dr Xin-Yi Huang, from Lanzhou Institute of Chemical Physics working on separation of chiral compounds
- Postgrad, Tian Han, from Beijing Technology and Business University – 3 year PhD programme on Cell separation in CCC
University of Cambridge Aug 2013-Aug 2014

- Invited by AAAS Science to lead a 48-page Special Feature on Traditional Medicine
  - perspective and hypothesis articles covering traditional medicine (China, Europe, Africa, Middle East, India and the Americas), theories and mechanisms of TCM diagnosis and acupuncture, herbal resources, omic’s, regulation and drug development
  - to be published in December 2014 (co-editors: Jan van der Greef, Leiden; Peter Hylands, London; Liang Liu, Macau; Aiping Lu, Hong Kong)
- Post-doctoral fellows from China (LIAO Sha, BAI Yan, ZHANG Fuwen) and Korea (Ranjoo CHOI)
- Academic visits and lectures – in Australia, China, Italy, Taiwan and UK
- “Chemogenomics Approaches to Rationalizing the Mode-of-Action of Traditional Chinese and Ayurvedic Medicines” - the most downloaded article in 2013 of J. Chemical Information & Modeling
- Collaborations with
  - Yeong Shik KIM (WHO Collaborating Center for Traditional Medicine, Seoul National University, Korea)
  - Calvin CHEN (China Medical University, Taiwan)
  - LIU Xinmin (WHO Collaborating Center for Traditional Medicine, Institute of Medicinal Plant Development, CAMS)
  - ZHENG Xiaohui, Xi’an Northwest University on Jun-Shi chimeric compounds
  - Shanghai Hutchison Pharmaceuticals on Shexiang Baoxin Pills 青香保心丸
  - HAN Jingyan (Peking University) on mechanisms of action of Danshensu
  - DUAN Junguo (Chengdu University of TCM) on TCM and natural products
  - JIA Wei  (University of Hawaii, USA)


- Professor Benny Mei, Chairman of the CMIR, passed away due to a heart attack in Bangkok on 8th January 2014
- Don Mei, succeeded his father as the Chairman
- For full details and reports of the above events and to keep up to date of the latest activities of the Chinese Medical Institute and Register (CMIR), please visit cmir.org.uk, as well as professional Courses website visit acumedic.com
TCM related research at Kew

Collaborations and Research

- 26th June 2014  Kew and Chinese Academy of Sciences signed Memorandum of Understanding to work together on different aspects of plant science including TCM.
- Continue to assist evaluate the quality of TCM plants for use by researchers and companies.
- Medicinal Plant Names Service (MPNS) Portal Launched in 2014

Papers published


King’s College London

- **King’s Centre for Integrative Chinese Medicine** (CICM, co-directed by Peter HYLANDS and Qihe XU)
  - CICM officially approved at King’s in June 2013
  - Secured a PuraPharm PhD Scholarship dedicated to CICM
  - Secured a **Sino British Fellowship Foundation** award dedicated to TCM research
  - Secured a **Hong Kong Baptist University** project grant in collaboration with Prof Zhongzhen ZHAO (PI)
  - Secured a 1-year China Scholarship Council Fellowship to host Dr Fan Qu, a TCM expert from Zhejiang University, to start in November 2014
  - Trained a postdoc for 3 months for **School of Chinese Medicine, the University of Hong Kong**
  - Supported by a Global Partnership Fund grant, personnel exchanges and site visits implemented with Chengdu University of TCM and a new collaborative research agreement signed
  - Supported by a Ministry of Education grant awarded to Dr DONG Ling, Beijing University of TCM, Prof HYLANDS and Dr Xu visited BUTCM in April 2014
  - Dr Qihe XU paid a site visit to the R&D and manufacture facilities of PuraPharm in Nanning in July 2014
  - The first CICM PhD student will embark on her research project on chemical elucidation of anti- and pro-fibrotic herbs in October 2014

- **The GP-TCM Research Association**
  - Dr Qihe XU and Prof Peter HYLANDS are members of Board of Directors and Executive Council
  - Treasury, convening BoD and ExC meetings and drafting newsletters
  - Scientific committee of the 3rd Annual Meeting in July 2014.
The research cluster ‘Biodiversity and Medicines’ continues to engage with a range of activities relevant in the context of TCM

**Completed:**
- Phytochemical composition and risk assessment of using *Aristolochia* species used in traditional medicines (see Dr. Johanna Michl’s presentation at this CGCM Meeting)

**On-going projects of relevance in the context of TCM include:**
- Value chain research of herbal medicines and links to metabolomic research in order to assess the composition and quality of herbal medical products
- TCM preparation for dermatological use (jointly with Dr. M. Lane from the Dept. of Pharmaceutics) (Jenny Chang, PhD student)